

PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING
AMENDMENTS OF THE CLAIMS(PCT Rule 62 and
Administrative Instructions, Section 417)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ETATS-UNIS D'AMERIQUE

in its capacity as International Preliminary Examining Authority

Date of mailing:

16 February 1998 (16.02.98)

International application No.:

PCT/IL97/00188

International filing date:

10 June 1997 (10.06.97)

Applicant:

STATE OF ISRAEL - MINISTRY OF DEFENSE ARMAMENT DEVELOPMENT AUTHORITY -
RAFAEL et al

The International Bureau hereby informs the International Preliminary Examining Authority that no amendments under Article 19 have been received by the International Bureau (Administrative Instructions, Section 417)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorised officer:

F. Gateau

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 16 February 1998 (16.02.98)	
International application No. PCT/IL97/00188	Applicant's or agent's file reference 26/207
International filing date (day/month/year) 10 June 1997 (10.06.97)	Priority date (day/month/year) 18 June 1996 (18.06.96)
Applicant SHKLARSKY, Dan	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
02 December 1997 (02.12.97)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

F. Gateau

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 19 JAN 1999

WIPO PCT

Applicant's or agent's file reference 26/207	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/IL97/00188	International filing date (day/month/year) 10 JUNE 1997	Priority date (day/month/year) 18 JUNE 1996
International Patent Classification (IPC) or national classification and IPC IPC(6): H04Q 7/36, 7/00, 7/20; H04B 7/26 and US Cl.: 455/447, 423, 436		
Applicant STATE OF ISRAEL - MINISTRY OF DEFENSE		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 0 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step or industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 02 DECEMBER 1997	Date of completion of this report 20 DECEMBER 1998
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer MYRON WYCHE <i>Diane Smith for</i>
Facsimile No. (703) 305-3230	Telephone No. (703) 308-6729

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IL97/00188

I. Basis of the report

1. This report has been drawn on the basis of *(Substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments):*

- ☒ the international application as originally filed.
- ☒ the description, pages 1-22 , as originally filed.
pages NONE , filed with the demand.
pages NONE , filed with the letter of _____.
pages _____ , filed with the letter of _____.
- ☒ the claims, Nos. 1-16 , as originally filed.
Nos. NONE , as amended under Article 19.
Nos. NONE , filed with the demand.
Nos. NONE , filed with the letter of _____.
Nos. _____ , filed with the letter of _____.
- ☒ the drawings, sheets/fig 1-5 , as originally filed.
sheets/fig NONE , filed with the demand.
sheets/fig NONE , filed with the letter of _____.
sheets/fig _____ , filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE .
- ☒ the claims, Nos. NONE .
- ☒ the drawings, sheets/fig NONE .

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the ~~Supplemental Box~~ Additional observations below (Rule 70.2(c)).

4. Additional observations, if necessary:

NONE

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IL97/00188

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. STATEMENT**

Novelty (N)	Claims <u>1-16</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>1-16</u>	YES
	Claims <u>NONE</u>	NO
Industrial Applicability (IA)	Claims <u>1-16</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-16 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest the applicant's method for increasing the capacity and reducing the probability of interference in a cellular radiotelephone system with the combination of limitations that includes:

- (a) measuring received power at each cell tower from all possible users in each said cell;
- (b) measuring received power at each cell from all possible user in the first adjacent cell tiers;
- (c) sharing the measured data and association information between neighboring cells;
- (c) calculating an overall interference table map based on this information; and
- (d) providing operating rules for all cells in the system based on adaptively defined interference power levels and multiple levels of frequency reuse.

_____ NEW CITATIONS _____

NONE

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

NOTIFICATION OF RECEIPT OF DEMAND

(PCT Rule 61.1(b), first sentence
and Administrative Instructions, Section 601)

To:

MARK M. FRIEDMAN
SAMUELOFF BUILDING
7 HAOMANIM STREET
67897 TEL AVIV
ISRAEL
ISRAEL

Date of mailing
(day/month/year)

02 FEB 1998

Applicant's or agent's file reference
26/207

IMPORTANT NOTIFICATION

International application No.

~~PCT/US97/90154~~
PCT/US97/00188

International filing date (day/month/year)

10 JUN 97

Priority date (day/month/year)

18 JUN 96

Applicant

STATE OF ISRAEL - MINISTRY OF DEFENSE

1. The applicant is hereby notified that this International Preliminary Examining Authority considers the following date as the date of receipt of the demand for international preliminary examination of the international application:

02 DEC 1997

2. This date of receipt is:



the actual date of receipt of the demand.



the date on which the proper corrections to the demand were timely received.

3. ☐ This date is **AFTER** the expiration of 19 months from the priority date.

Attention: The election(s) made in the demand does (do) not have the effect of postponing the commencement of the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)). Therefore, the acts for entry into the national phase must be performed within 20 months from the priority date (or later in some Offices) (Article 22).

For details, see Annex B to Form PCT/IB/301 sent by the International Bureau and Volume II of the PCT Applicant's Guide.



This notification confirms the information given in person or by telephone on:

4. Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau.

Name and mailing address of the IPEA/US

Assistant Commissioner for Patents
Box PCT
Washington, D.C. 20231
Facsimile No.

Attn: IPEA/US

Authorized officer

etal Saunders

Telephone No.

703-305-3663

PATENT COOPERATION TREATY

PCT

INFORMATION CONCERNING ELECTED
OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

From the INTERNATIONAL BUREAU

To:


FRIEDMAN, Mark, M.
c/o Castorina, Anthony
Suite 207
2001 Jefferson Davis Highway
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 16 February 1998 (16.02.98)		
Applicant's or agent's file reference 26/207		IMPORTANT INFORMATION
International application No. PCT/IL97/00188	International filing date (day/month/year) 10 June 1997 (10.06.97)	
Priority date (day/month/year) 18 June 1996 (18.06.96)		
Applicant STATE OF ISRAEL - MINISTRY OF DEFENSE ARMAMENT DEVELOPMENT AUTHORITY - RAFAEL et al		

- The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:
 AP : GH, KE, LS, MW, SD, SZ, UG
 EP : AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
 National : AU, BG, BR, CA, CN, CZ, DE, FI, GB, IL, JP, KP, KR, MN, NO, NZ, PL, RO, RU, SE, SK, US, VN
- The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:
 EA : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 OA : BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
 National : AL, AM, AT, AZ, BA, BB, BY, CH, CU, DK, EE, ES, GE, HU, IS, KE, KG, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MW, MX, PT, SD, SG, SI, TJ, TM, TR, TT, UA, UG, UZ, YU
- The applicant is reminded that he must enter the "national phase" **before the expiration of 30 months from the priority date** before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).


 Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

 The entry into the European regional phase is postponed **until 31 months from the priority date** for all States designated for the purposes of obtaining a European patent.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer: F. Gateau  Telephone No. (41-22) 338.83.38
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~~7/1/97~~
November 28, 1997

APPLICANT: RAFAEL
DOCKET NO.: 26/207
FOR: ADAPTIVE CAPACITY...INTERFERENCE SOURCES
FILED: JUN 10, 1997
SERIAL NO.: PCT/IL97/00188



Receipt of the following application papers is evidenced hereon by the official stamp of the
U.S. Patent & Trademark Office:

PCT DEMAND

3

The demand must be filed directly with the competent International Preliminary Examining Authority or two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ US

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty.

For International Preliminary Examining Authority use only

Identification of IPEA		Date of receipt of DEMAND	
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION		Applicant's or agent's file reference 26/207	
International application No. IL97/00188	International filing date (day/month/year) 10 JUN 1997	(Earliest) Priority date (day/month/year) 18 JUN 1996	
Title of invention ADAPTIVE CAPACITY AND QUALITY IMPROVEMENTS IN CELLULAR RADIO SERVICES BY THE REMOVAL OF STRONG INTERFERENCE SOURCES			
Box No. II APPLICANT(S)			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) STATE OF ISRAEL - MINISTRY OF DEFENSE ARMAMENT AUTHORITY - RAFAEL P.O.Box 2250 Haifa 31021 Israel		Telephone No.:	
		Facsimile No.:	
		Teleprinter No.:	
State (i.e. country) of nationality: IL		State (i.e. country) of residence: IL	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) SHKLARSKY, Dan P.O.Box 7866 Haifa 31078 Israel			
State (i.e. country) of nationality: IL		State (i.e. country) of residence: IL	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) 			
State (i.e. country) of nationality:		State (i.e. country) of residence:	
<input type="checkbox"/> Further applicants are indicated on a continuation sheet.			

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCEThe following person is ☒ agent ☐ common representativeand ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

FRIEDMAN, Mark M.
 c/o CASTORINA, Anthony
 2001 Jefferson Davis Highway, Suite 207
 Arlington, Virginia 22202
 US

Telephone No.:

703-4151581

Facsimile No.:

703-4154864

Teleprinter No.:

☐ Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.**Box No. IV STATEMENT CONCERNING AMENDMENTS**

The applicant wishes the International Preliminary Examining Authority*

(i) ☐ to start the international preliminary examination on the basis of the international application as originally filed.(ii) ☐ to take into account the amendments under Article 34 of☐ the description (amendments attached).☐ the claims (amendments attached).☐ the drawings (amendments attached).(iii) ☐ to take into account any amendments of the claims under Article 19 filed with the International Bureau (a copy is attached).(iv) ☐ to disregard any amendments of the claims made under Article 19 and to consider them as reversed.(v) ☐ to postpone the start of the international preliminary examination until the expiration of 20 months from the priority date unless that Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired.)*

- * Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Box No. V ELECTION OF STATES☒ The applicant hereby elects all eligible States (that is, all States which have been designated and which are bound by Chapter II of the PCT) except.....*(If the applicant does not wish to elect certain eligible States, the name(s) or country code(s) of those States must be indicated above.)*

Box No. VI CHECK LIST

The demand is accompanied by the following documents for the purposes of international preliminary examination:

For International Preliminary
Examining Authority use only

received

not received

- | | | |
|--|---|--------|
| 1. amendments under Article 34 | | |
| description | : | sheets |
| claims | : | sheets |
| drawings | : | sheets |
| 2. letter accompanying amendments under Article 34 | : | sheets |
| 3. copy of amendments under Article 19 | : | sheets |
| 4. copy of statement under Article 19 | : | sheets |
| 5. other (specify): | : | sheets |


<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

The demand is also accompanied by the item(s) marked below:

- | | |
|--|--|
| 1. <input type="checkbox"/> separate signed power of attorney | 4. <input checked="" type="checkbox"/> fee calculation sheet |
| 2. <input type="checkbox"/> copy of general power of attorney | 5. <input type="checkbox"/> other (specify): |
| 3. <input type="checkbox"/> statement explaining lack of signature | |

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).


FRIEDMAN, Mark M.
agent

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.

☐ The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on:

PCT

FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">International Application No.</td> <td>IL97/00188</td> </tr> <tr> <td>Applicant's or agent's file reference</td> <td>26/207</td> </tr> </table>	International Application No.	IL97/00188	Applicant's or agent's file reference	26/207	<div style="border: 1px solid black; padding: 5px;"> For International Preliminary Examining Authority use only </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Date stamp of the IPEA </div>								
International Application No.	IL97/00188												
Applicant's or agent's file reference	26/207												
Applicant STATE OF ISRAEL - MINISTRY OF DEFENSE RAFAEL - ARMAMENR DEVELOPMENT AUTHORITY													
Calculation of prescribed fees <table style="width: 100%;"> <tr> <td style="width: 60%;">1. Preliminary examination fee</td> <td style="width: 15%; text-align: center;">490</td> <td style="width: 25%; text-align: center; border: 1px solid black;">P</td> </tr> <tr> <td>2. Handling fee</td> <td style="text-align: center;">162</td> <td style="text-align: center; border: 1px solid black;">H</td> </tr> <tr> <td>3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box</td> <td style="text-align: center; border: 1px solid black;">652</td> <td></td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center; border: 1px solid black;">TOTAL</td> </tr> </table>		1. Preliminary examination fee	490	P	2. Handling fee	162	H	3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box	652			TOTAL	
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2. Handling fee	162	H											
3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box	652												
	TOTAL												
Mode of Payment <table style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> authorization to charge deposit account with the IPEA (see below)</td> <td><input type="checkbox"/> cash</td> </tr> <tr> <td><input type="checkbox"/> cheque</td> <td><input type="checkbox"/> revenue stamps</td> </tr> <tr> <td><input type="checkbox"/> postal money order</td> <td><input type="checkbox"/> coupons</td> </tr> <tr> <td><input type="checkbox"/> bank draft</td> <td><input type="checkbox"/> other (specify):</td> </tr> </table>		<input checked="" type="checkbox"/> authorization to charge deposit account with the IPEA (see below)	<input type="checkbox"/> cash	<input type="checkbox"/> cheque	<input type="checkbox"/> revenue stamps	<input type="checkbox"/> postal money order	<input type="checkbox"/> coupons	<input type="checkbox"/> bank draft	<input type="checkbox"/> other (specify):				
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<input type="checkbox"/> cheque	<input type="checkbox"/> revenue stamps												
<input type="checkbox"/> postal money order	<input type="checkbox"/> coupons												
<input type="checkbox"/> bank draft	<input type="checkbox"/> other (specify):												
Deposit Account Authorization <i>(this mode of payment may not be available at all IPEAs)</i> The IPEA/ _____ <input checked="" type="checkbox"/> is hereby authorized to charge the total fees indicated above to my deposit account. <input checked="" type="checkbox"/> <i>(this check-box may be marked only if the conditions for deposit accounts of the IPEA so permit)</i> is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.													
06-2140 <hr/> Deposit Account Number	<hr/> Date (day/month/year)	<hr/> Signature											